

COIR FIBER WATTLE BARRIER:

Description

Coir Fiber Wattle Barriers are tubular products consisting of coir fibers (coconut fibers) encased in coir fiber netting and used at toe of fills or on slopes to intercept runoff. Coir Fiber Wattle Barriers are to be placed at locations shown on the plans or as directed. Installation shall follow the detail provided in the plans and as directed. Work includes furnishing materials, installation, maintenance and removing Coir Fiber Wattle Barriers.

Materials

Coir Fiber Wattle shall meet the following specifications:

100% Coir (Coconut) Fibers	
Minimum Diameter	12 in.
Minimum Length	10 ft.
Minimum Density	3.5 lb/ft ³ +/- 10%
Net Material	Coir Fiber
Net Openings	2 in. x 2 in.
Net Strength	90 lbs.
Minimum Weight	2.6 lbs./ft +/- 10%

Anchors: Stakes shall be used as anchors.

Wooden Stakes:

Provide hardwood stakes a minimum of 2-ft. long with a 2 in. x 2 in. nominal square cross section. One end of the stake must be sharpened or beveled to facilitate driving down into the underlying soil.

Provide staples made of 0.125" diameter new steel wire formed into a *u* shape not less than 12" in length with a throat of 1" in width.

Construction Methods

Coir Fiber Wattle Barriers shall be aligned in an overlapping and alternating pattern. A trench shall be excavated the entire length of each coir fiber wattle with a depth of 1 to 2 inches for the wattle to be placed. Coir Fiber Wattle Barriers shall be secured to the soil by wire staples approximately every 1 linear foot and at the end of each wattle. A minimum of 4 stakes shall be installed on the downslope side of the wattle with a maximum spacing of 2 linear feet, and according to the detail. Install a minimum of 2 stakes on the upslope side of the Coir Fiber Wattle Barrier according to the detail provided in the plans. Stakes shall be driven into the ground a minimum of 10 in. with no more than 2 in. projecting from the top of the wattle. Drive stakes at an angle according to the detail provided in the plans.

Coir Fiber Wattle Barriers used to reduce runoff velocity for large slopes, use a maximum spacing of 20 ft. for the barrier measured along the slope.

The Contractor shall maintain the Coir Fiber Wattle Barriers until the project is accepted or until the Coir Fiber Wattle Barriers are removed, and shall remove and dispose of silt accumulations at the Coir Fiber Wattle Barriers when so directed in accordance with the requirements of Section 1630 of the *Standard Specifications*.

Measurement and Payment

Coir Fiber Wattle Barrier will be measured and paid for by the actual number of linear feet of Coir Fiber Wattle Barriers which are installed and accepted. Such price and payment will be full compensation for all work covered by this section, including, but not limited to, furnishing all materials, labor, equipment and incidentals necessary to install the *Coir Fiber Wattle Barrier*.

Payment will be made under:

Pay Item

Coir Fiber Wattle

Pay Unit

Linear Foot